

**SUBSTITUTE ABSTRACT**

Please delete the current Abstract and replace it with the following new Abstract:

**ABSTRACT**

Computer implemented methods are provided for validating computer code in order to reduce errors at runtime. In one implementation, the method comprises providing a computer program by defining at least one set of definition instructions, at least one set of implementation instructions, and a script code section. The definition instructions and the implementation instructions may be described in XML. Further, the method may comprise validating the set of definition instructions and the set of implementation instructions using a validation tool, and validating the script code section using the set of implementation instructions.